

Dyer, Riddle, Mills  
& Precourt, Inc.



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Principals

Wayne D. Chalifoux  
Donaldson K. Barton, Jr.  
Lucius J. Cushman, Jr.  
Jon S. Meadows  
Stephen L. Precourt  
Lawrence L. Smith, Jr.  
William T. Stone

# Letter of Transmittal

To: Annette Burkett  
South Florida Water Management  
District  
1707 Orlando Central Parkway  
Suite 200  
Orlando, FL 32809

Date: 12/4/06

DRMP Job #: 00-0366.300

DRMP  
Task:

Subject: Disney's Contemporary Suites  
Application #061106-23

**We are sending you:**

<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Airborne Express	<input type="checkbox"/> Courier	<input checked="" type="checkbox"/> Hand Deliver
<input type="checkbox"/> FedEx	<input type="checkbox"/> First Class	<input type="checkbox"/> Pick-Up	<input type="checkbox"/> UPS Ground
<input type="checkbox"/> UPS 2 <sup>nd</sup> Day	<input type="checkbox"/> Change Orders	<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Plans
<input type="checkbox"/> Prints	<input type="checkbox"/> Reports	<input type="checkbox"/> See Below	
<input type="checkbox"/> Other			

Copies	Date	Description
3		Requested Additional Information (includes grading plan with FFEs, revised Critical Data Summary, wall and littoral zone calculations)

**For:**

<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> For review & comment	<input checked="" type="checkbox"/> As requested	<input checked="" type="checkbox"/> For your approval
<input type="checkbox"/> For your use	<input type="checkbox"/> For your files	<input type="checkbox"/> Returned from loan	<input type="checkbox"/>
<input type="checkbox"/> Other			

**Remarks:** If you have any questions regarding this transmittal, please contact our office.

Sincerely,  
Dyer, Riddle, Mills & Precourt, Inc.

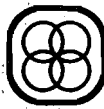
Eric Arp  
Project Engineer

CC: WDD  
Mack Elsabagh

941 Lake Baldwin Lane  
Orlando, Florida 32814  
Phone: 407.896.0594  
Fax: 407.896.4836

Charlotte, North Carolina  
Chipley, Florida  
Columbia, South Carolina  
DeLand, Florida  
Ft. Lauderdale, Florida  
Ft. Myers, Florida  
Gainesville, Florida  
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**DRMP**  
ENGINEERS SURVEYORS PLANNERS SCIENTISTS

Made By: esa

Date: 12/4/06

DRMP Job No.: 00-0366.300

Checked By:

Date:

Task No.:

Sheet No.:

Calculations For: Disney's Contemporary Suites

% Pond Perimeter Walled

Pond Perimeter @ NWL = 815 ft

Wall Length @ NWL = 244 ft

$$\% \text{ Pond Perimeter Walled} = \frac{244 \text{ ft}}{815 \text{ ft}} = 30\%$$

Littoral Zone

Required Littoral Zone

$$(0.20)(0.72 \text{ ac}) = 0.14 \text{ ac} \leftarrow \text{CONTROL}$$

$$(0.025)(8.67 \text{ ac}) = 0.22 \text{ ac}$$

Provided Littoral Zone

Area @ NWL = 0.72 ac

Area @ 6' Depth = 0.45 ac

$$\text{Littoral Zone Area} = 0.72 \text{ ac} - 0.45 \text{ ac} = 0.27 \text{ ac}$$

ERIC ARP  
12/4/06  
Eric Arp  
PL # 53971

**DVC @ The Contemporary  
Construction Trailer Compound**

**Critical Data Summary**

**1.0 Overview**

Location Map: See attached.

Modification (Permit No. 48-00714-S)

Application Type: ERP

Location

County: Orange

General Location: Sections 11 & 12, Township 24S, Range 27E

Owner: Walt Disney World Co., Inc.

Permittee: Reedy Creek Improvement District

Operation Entity: Walt Disney World Co., Inc.

Project Area: 14.25 acres

Project Land Use: Commercial

Drainage Basin: Reedy Creek

Total Acres of Wetlands Onsite: 0

Total Acres of Wetlands Impacts: 0

Total Acres of Preserved Wetlands: 0

**2.0 Project Site Description**

Disney's Contemporary Suites entails the construction of a commercial development with associated infrastructure where the existing Contemporary Hotel North Garden Wing is now located. This area is within Basin L407A-2 of the RCID Master Drainage Plan. Attenuation of stormwater will take place in the RCID master system. Existing condition hydrographs have been modeled for this project regardless.

This project consists of demolition of the existing Contemporary Hotel North Garden Wing with construction of a new commercial building with amenities along with an expansion to the existing parking facility. The existing building and parking area has approximately 8.75 acres of impervious area which is drained through an existing storm sewer system into the RCID master system. Drainage from this area is not treated in the present condition.

A wet detention pond has been designed to treat the runoff from the proposed building and parking lot expansion. In addition, the area of the existing parking facility has been included in the proposed pond's pollution abatement volume calculations even though drainage from this area cannot physically be routed through the pond.

The normal water level of the pond was established based upon two factors, the average wet season ground water table elevations as established by PSI and the seasonal high water elevations of the surrounding wetlands as established by PBS&J. Based on information provided by PSI, the average wet season groundwater table elevation in the area of the pond is approximately 95.7 ft. Based upon information provided by PBS&J, the seasonal high water elevations in the wetlands is approximately 96.1 ft. The normal water elevation in the proposed pond has been set at 96.2 ft. to provide positive outfall to the wetland.

### 3.0 Land Use

Building	Pavement	Water Management	Pervious	Total
0.89 ac	8.25 ac	0.93 ac	4.18 ac	14.25 ac

### 4.0 Surface Water Management Design Parameters

#### Water Quality/Discharge Table

WQ Volume Required	WQ Volume Provided	Overflow Elevation	Allowable Discharge	Proposed Discharge	Receiving Body
1.72 af	1.72 af	98.39 ft	NA	29.62 cfs	Off-Site Wetland

### Design Storm Stages

Control El.	10yr/72hr Stage	Prop. Min Rd.	100yr/72hr Stage	Prop Min FF
96.2	99.09	99.70	99.45	101.50

### Control Structures

POST-1      Type H DBI (36"x79") top elevation 98.39  
                 3" orifice elevation 96.20  
                 36" RCP & 6" ADS